

PTO/SB/08A (08-00)

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A PTO

(use as many sheets as necessary)

Application Number

Filing Date

January 7, 2002

First Named Inventor

Takenobu KISHIDA

Group Art Unit

Examiner Name

Attorney Docket Number

740819-710

JCB68 U.S. PRO
10/036388

01/07/02

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Examiner Signature	PHAT X. CAO	Date Considered	8/1/03
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Substitute for form 1449A PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10,036,388
				Filing Date	01/07/2002
				First Named Inventor	Takenobu KISHIDA et al.
				Group Art Unit	2814
				Examiner Name	Unassigned
Sheet	1	of	1	Attorney Docket Number	740819-710

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
ic		6,162,728		Tsao et al.	12-19-2000	
pc		6,235,629	B1	Takenaka	05-22-2001	
pc		6,291,885	B1	Cabral, Jr. et al.	09-18-2001	

FOREIGN PATENT DOCUMENTS								
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	1 ²
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
pc		JP	09-017790	A	Cyril et al.	01-17-1997		Abst.
pc		JP	2000-106396	A	Nobuyuki	04-11-2000		Abst.
pc		JP	2000-188293	A	Tsuao et al.	07-04-2000		Abst.
pc		JP	2000-294630	A	Nobuhiro et al.	10-20-2000		Abst.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and or country where published.	1 ²
pc		Kwon et al., "Characteristics of Ta as an Underlayer for Cu Interconnects", Materials Research Society, pp. 711-716 (April 1997)	
pc		Kwon et al., "Evidence of Heteroepitaxial Growth of Copper on Beta-Tantalum", November 1997, Appl. Phys. Lett. 71 (21), pp. 3069-3071	

Examiner Signature	PHAT X. CAO	Date Considered	8/1/03
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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